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TITLE : COLOR DEVELOPING RECORDING MATERIAL



ABSTRACT : PURPOSE: To enhance developed color intensity, to intensify absorption from a visible region to a near infrared region and to stably develop a color regardless of the change of acidity and basicity by adding an aromatic amine derivative represented by a predetermined general formula and an inorg. compd. having both of acid properties and oxidizing capacity.

CONSTITUTION: An aromatic amine derivative represented by formula I (wherein R¹ and R⁴ are a substituted or non-substituted aryl group, R² and R³ are a hydrogen atom, a lower alkyl group or a substituted or non-substituted aryl group and X is a substituted or non-substituted arylene group), for example, N'-diphenyl-O-phenylenediamine and a heteropoly compd. as an inorg. compd having acid properties and oxidizing capacity or a metal salt thereof, for example, sodium phosphomolybdate are added to form a color forming recording material. By this constitution, the aromatic amine derivative can be efficiently converted to a color developing aluminum compd. and high absorption intensity and high fastness can be obtained within a range from a visible region to a near infrared region.

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